| Name | Bartirim Thomas |
| :---: | :---: |
| Ranle | Cpl |
| Unit | 7 INIERRCEPT EVALUATION SLC. |
| Function | Cryptaxalyst |
| F.P. No. | 05018 8 |
| Captured | Arrested by CIC at BR: |
| Secret No | lif 45/780. |
| Intermogated | CSDIC, CIF , $21-24$ AUE 45 |2. HISTORY AND INOVEIENIS3. WORK AT OKI IN $工 / V I ;$ TMNGLAND RRFERAT2

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31 Liug 45

## 1. PREAMBIT

PV is a fairly brieht, solf-confident youns man of 22 who olains to bo anti-Nazi and that ho dooidod to loavo tho Goman Amyy sonotine last auturne. Whon tho war begian ho was about to study $G C 0$ raphy at BiHMIN University. Ho spoals Enclish, Ituliun, Norwocian and Swodish. Ho gavo infomation villincly and appears to bo avoro of the intorest tho Allios show in the mattors of which ho has lenorlodego. Unfortunatoly, ho has noither the good momory for detail nor the toahnical skill of oithor DOST or COEFITR, so that most subjcots on which he has information aro alroady know in rroater dotail than ho could provide. His information is howover reproduood in toto, bocouse it provides if cheak on the two PW montioncd above, and also complotos cortain gaps in tho picture.

> Roliability : Fair.

## 2. HISTORY NND : OVE ENTS

25 Aus 41 Callod up to 6 Coy , 3 Sicss Dopot Bn, POTSDis.
30 _us 41 Transforrod to 3 ( 4 , Iish $\cdot$ spoalin) Coy, Sics Intarprotors 20 Dopot Bn, iBISSEN.
20 Oct LH Postod to OIFH IN 7/VI for a coursc on or jptocerchy, lasting threo months.
bog Jan 42 Posted to BNGILND Rofurat in OIII IIT $7 / \mathrm{VI}$.
mid Lpr 42 Transforred to 9 Fixod Intorcopt Sta (FiaST 9), thon formin: at IRITKFURT a/iain.
bog Jul 42 With unit to NORINIY.
LuE 44 With unit to SiNDinGO (Provinco of VICMTZA) whoro the unit vas gradually disbandcd. PiN postcd to 7 Intorcopt Bvaluation Soc (NAAST 7) at BMEMANA, Mr VICENZA.
10 liar 45 Went ovor to Partisuns togethar with Cpl DinJifh Henry.
25 Apr 45 With Brisata MONIT SUMTLO ("Justizia o Libcrta" formation). Jun 45 Writine report for "PATRIOT BR'NCH" at BZwSCIA oxplaining his bef Jul 45 conduct and tryine to get offiojal Partisan status.
13 JuI 45 a job with imostod by CIC, intorrociatod, and sont to VIROMIs.

## 3. WORIK AT OIG IN $] / V I_{2}$ INGLIND RTFHRMT, (Jan - ippr 42)

## A. The TOC-IE

I 4 -fisfurc codo usod in conjunotion with continuous rociphor. Traffic intorcoptod was oricinatod in NiW. Tho oode was brokon by moans of dopth obtainod fron "poriodicity" (PH SIMTGIFICHFEIT) of tho recipher. The voaloness of tho systora was tho way in wich tho spolling was indicatod, i.o., spoller indicators enabled spelt portions of a mossaro to bc troatod as a sirmlo substitution ciphor ("Buahstabiorstollon konnton proktisch als oinfachor Caosar goloost vordon").

## B. Tho IDC

PY/ states that all he lnows ais ut this oode is thint it mes usod in Diplonatio Traffic. He statos ho las no lmo:ilodec of how it ilas road, brolken or deciphored, caxcont that ho doos lenow tim 'rasic book hid bocn captured.

## C. Rosoarch

While in the INGLATD Roforat PW worlecd for a tinc in a small Group undar Dr. SCilutz tryind to bruai: any now code or cipher systems usod in 1 IE, fijuro traffic only. Howover NO rosults iTcro obtainod (I.O.'s Note:- this traffio any bo tho unreoognisod WOO- Traffic of vhich COITJR lncv so littlc).

## 

PW was cimployod on British, US:- and Stodisiz codos and ciphors wilc witin this unit.

## -. BRITISI: SYSTTIS

## I. The EC 5

In uso in $42-43$. It was a. sirmple codc-table containiné clore taxt in alphabotical ordur inside colums. Code uroups wore rooijacred by ...eans of battod alphabets which vore provided on fixed cursors. Code groups woro lottor bigrains, and troffic was sont in 5-lettor croups. Tactically valuablo natorial wes intorcoptod in . Wirl... In Uii traffic vas mostly practicc atorial. Canadian units stationod in tho South of MGINND hed tiacir own ICC tillas. Tho uso of this ficld codo was stopped at bogimine 4.4.

## II. The EC 12

Traffic in this ficla code appored in NORTH FFrIC. in 42-43. It Wa.s a dovclopment of the EC 5. acode group of 2 lottors was rociphored to a Troup of 4 -ficures which wes then signallod. Rocipherine took place followine a. co-ordinates systoil, wich was iftomrards hatted bafore signalling. It vas actually worled on and broken in BFRLIN.

## III. The SLIDEX

This was worked on sinoc dy 44. It ims developod from the oorly EC 5. It vas a. for bettor systail, especiolly as it cnabled throc variants for cloar
 SWITCII-OFF. -it the scane time, the voriable cursor systen piten rusulted in sottines wich allowod the "pairing up" of iossagos set on the sone lines, or on the saike columins. Ports of the cursor-setinis could of ten ye reconstructod, evon bofore the text was brolion.

## (a) The EC 30/3

Tho SLIDEX reforrod to by the Gorinans as the INC $30 / \overline{\mathrm{u}}$ w.s ruconstructod by 9 Fixed Intorcopt Sta in : iny 44. Troffic intorcopted had been originatod by IOs links (FIIVONETZE) in UK. Control of tincsc linles was aliajs at Corps lovel and roadin of treific Gुave an insi.ght into Corps 0 of $B$, ctc. Fii statos thet traflic was British and not ancricin and that as for as he could maice out tio LOs worc iny and RiF officors. The Gemans :ore vory surprised to soc that this fiold-code, without any altoration whetsocvor, vas usca by the iJos links on D-day and a good fow vecks aftor 6 Jun 44, alloring the encray to discovur at once the Corps 0 of $B$, with dotoils down to Bdes. This lind of rorle was hended over to 5 Intercopt Fif ot ST GYizinl at ond Jun 44. This unit succociod in roconstructine soveral wore SLIDEX telbles, to whiel vere added captured spocimens durins survar and autuinn.

## (b) Tho $\operatorname{TC}$ 30/20 (S and T)

 Traffic was originatcd by supply units of 8 amy. Tactical mossares had bocin read till and Sop 44, whon thoy stopped - cocording to Pil - and 4 -ficurc traffic wes signalled, which was suspuctod to bo ruciplaced code, and wres not broken.

## IV. Tho IINTX

This systow was in uso since Fob 45. It was morkcd on, but not broicon It man suspootod to bo a comincd substitution and transposition systar:. Traffic was sont in 4 -lettor croups, 2.2 indicators (KARTGRUPPRi) vorc also of 4 lettors, and the nu:bor of lettors in wosse.cus mos signallod at the und.

## v. The CODEX

This hed boen in use in TrsIY boforo I Sop 44. Pi raicrred to it 20 a "DECKLLECODE". This codo was read. is oaptured speoin had boon in possossion of the Germens sinco the deys of tho ITiizOS invasion,
B. US. SYSTETS

I The DFCs (Divisionol Fiold Codos).
(.) DFC 15

In uso in autu:in 42, broken in Jan 43. Troffic ves intarcepted on a froquency of 4080 Kos fro:a US iray links in ICH. ND (stas at REYKJiVLK, iKURMIRI and BUD. PeIRI). Stas uscd fixod callmsigns till auturan 43, and thoronftor doily onll-signs. This fiold codo was ourrent for one rionth only. It vas a 4 -lottor codc, non-alphobotical, with variants and usc of "duds" (BINNDIFRN"). It was broken by assuming cloar routinc mossages wore tha basis of the poodod tort, such as Doily Shippine Roport, licathor Floroast oto.
(b) DFC 16

This was curront for ono month, prabably in Now 42. It was sjrilar to tho DFC I5 above.
(c) DFC 17

This was curront from Deo 42 to Fob $4 \overline{3}$. about the latter date one or two oopios of the tablo vrore capturud. Vury jood intorinl was interroentoci fone
 Traffio was broken and road noorly up to $100 \%$.
(d) $\operatorname{DIC} 2 I$

This sucocedod the DFC 17. Rosults wore the same.
(c) DFC 25

Ourront only in CiARTBZR: N SFii aroa, and ruad in part.
(f) DHC 28

This succoedod tho DFO 21 inasuanar 43. It was used by the ICIILuND liniss and the 28 (or 29) US Div in the South of INGLiND. The codo Fras read. Now and afain it was rociphored by woens of alphebot substitution tablos ("oinc . . rt von Duahstabontauschtafcli") chonging daily. This nothod was broken bocause the systomatic construction of tho ficld codo was known.
(B) DFC 29

ㅅ copy of this toblo was capturod in auturan 43. It vias novor usod, श1 did not lenow vihy.

## II. The. $\mathrm{CO}_{1}$

This Tm.S $a$ US irriy Lardn oodo, of no stratozio valuc. Traffic in thio codo was passod by fixed US iT stas und beses abroad. The codo was of the 5luttur type, witl about 60,000 rroups, oach paçe oontaining 90 croups. Thero weno oode-groups for cormlete phrasos, but these woro not usod very often. PVl thought that oporifors found it casior to oncode toxt by taking clear sinflo words rather then bo boticorcd to look do:m the clar phrasos oolum to find tho rocuired sontence. The codo had beon "captured" boforo 39 and all Gorizn cripto sucs in the field voro oquipood with piotostat oopios. In IFowi..Y, 9 Iixod Inturcont sta took and rood this traffic from su ion 42 to cutuin $4 j$.

## III. Tr20 "THयद."

This code suecociod tho .C I in auturin 43. It wes a simpler odition of the _.C I, with fowror variants provided, but built up on the sanco lines and of tho sax sizc. 9 Fixod Interoept Sta bro:=0 and reconstructod it to $a$ larcic extent, with the holp of tico evaileble .. 1.

## 

## I. The SR: 1, SR $: 5$

These riore doscribed by PVI as a "Restor" winich could bo revolvod and turncd ("cin Dreh-und iende-2ostor"). The table consistcd of 20 colurins, grouped in blocks of 5 colu:ms caci, and 15 linas, the total of 300 spacos beiaj dividod in ono quarter blank and tirce quartors blottad spaces. This tailc wos ussd as estoncil on or tiroun inich 75 cloar letters woild be vritton. Text iras uritutan across horizontally, and rand off darourardsminncy caluins-block by blocic in acoordance witil a oertsin key, say 1, 4, 2, 3 wherc each diojit stosd for 5 small colums which were road off together. The completo stancil was then revalvod by $180^{\circ}$ for :rriting out of a further 75 aloar lotters, ofter winch-if the text was lonf-the stencil was turncd on the other side, the right hand odie of the oricinal side bocomine the loft hand cdre of the turnod-over side and vice-versa, with a furtiner possibility of rovolving this side through $180^{\circ}$ olso. Thus the stanail could bc uscd four timos, i. c. the sart sould bc 300 letters fone without rowriting over tho saio stencil aroa. Pil statos howacer that muarorous oases of corpromises occured and that the stenoil yous in actual fant a vory simplo systom, usod probebly for training purposos for oparators who yore to use the FGimaster bolow. Troffic was all road with couparatian oase. It was first brolsen in sprine or sumer 43.

## II. The IIG-Rastor

This mes a ouah horior systan, proviaing no cortoroziso cuscs at $=11$. Litor 9 Fixcod Intorcopt Sta had failod to broak it, matorial was sont to BTailit and handed over to a Gominn Forcign Office oryptocraphor who had Inotiodge of those Stradish Raster systoms. This wes duc to tho fact that tine Swedish Forcion Office used Restar ciphors for their diplomantic coins. Foucvar, as for as P.i :nncir, no rosults vere obtainca at BEiNIf eithor.
III. Inc SCs (SCAMEDTN CODEI)
(a) SC2

Read in lay 4.3. It was a simple ficla code in table form on tho linus of the EC 5, but without discuisinc of cursor indicators or cursor-lctturs. Iraific
 micil was joing usca. Thus STCST always procedod traffic in tizo sa:c $t-b l c$. Tris traffic vos rocd, as $17 c l l$ as trulcs rith indicators STrss ana STDST.
(3) SC3

Road in 4 pr 43. This was a simplo, partly alphabctical, 3-lettor ficla coãc. lio rccighoring was used. The indicntor ( (Gmiceupre) usod mas SSOES. Tables also oxistod ititi indicators SS. IS, SSESS and SSDSS.
(c) $\mathrm{SCl}_{4}$

Read in Jun 43. It was a 3-lcttor alphabetionl code ranging fron can to hhh, which PII described as voluxinous ("unizngreich"), irith E12 Jroups = 83 . ITo recipher was usod.
 9)

Of : CSDIC/CIF/Y $\quad 0$ prara 3 I..II b)
... History
The unit, covar narae . STRID, vas fomod botroon liay and $j u n 1 h^{2}$ at Parimurr alicin. It loft for Nor ar in Jul 42 and was first stetioncd at Trondrim t
 and vas stationod at Sunbrigo noer VICZiNz.. Pif status thant botween sumar and :rintar $4+$ tho unit madually wound itsolf up and parsonncl wore tion alay fron it, so that by Xins thou vias nothing loft. Whilo in NORiNix the unit cano $\mathrm{u} / \mathrm{c}$ of 5
 RIECRINE

## B. Oy 3nnisation

Tho Sta vras orgenisod on the linos of a Coy, with an FO , throc pls, the Evaluation Scc with its sulb-socs, and a supply col. Fif Coy was larjaly the $O^{1}$ 's Offico and the Uxdorly Roon. The Pls woro :

Intorcont PI (iiORCIIZUG) nbout $80-120$ inen strons, cquippod with ebout 30 sets,
DI PI (PBILZUG) which wis not usod in tho ficld,
 rrith NT sta, TP and IT oxchunfo.

Tho Evaluation Soc (iUUSTRERTUNG) was subdividod into:
Contonts Evaluation Sub-soc (INELITSS AVI)
Traffic Iviluation Sub-soc (VETiNGIRS .IT)
Final Evaluation Sub-sec ( NTD . .NV)
Cryptocrophic Sub -soc (ENTMITINRUG).
Tutal porsonnol arbunted to ajout 30 =on:

## C. Taciss

Pil states that tho unit's tasks wore to intoroupt treffic oricinatod by the Britisin -ray in Northorn ENGLiND, SCOTLAND and the FiROES, and fron suanior 44 all Invasion linles; furthor all US lumy liniss in ICELHND, all US fixod irT stas in the ITLNTIC aron and tho C.LTBBENT; also NE and INDL. traffic, and occasionally $\therefore$ IC traffic. In addition to this, tho unit intoroopted Swociish may truffic and umployed a (?) Soc uf LT intorcot syoci..lists for listenin in to tuluphono converscitions across the Swedish bordor. Swodish. May WI traific and LT intorcoption inas auno by a sulb-unit of 9 lized Intcrcopt Sta, callod ".ussonstullo ITilnerll stationod at II LDEN and attachud for adrain purposus to thu fildon polico
 to 10 sots at its disposal, whorans scvoral "listeninic dets" (In USCillTRUPPS) woro oroloyod at or near the f-onticr crossines at KORNSJOE and last of
 2íIt IFITHCEE as morine tochnical dotails.

## D. Fryiment

PW know for dotrils arcoupt that tho unit oquipment allowod intorcoption of hand-ley norso, a somi-automatic dovico called "BUC-LNSTM", automatic
 (Funntioistor) RUDNT, Pr as ownort on TT TP intorcopt.

## 6. MISCELLINEOUS

## t. Oo-oporation vith Jopanose Cryoto Sorvico

This oxisted officinlly, but in aotual foot anountod to nothins. PVI hoord of only ono instenoo in which som oxchanc of information took plaoc. It was done in connootion with on Ls.norions ficld ciphor machine copturod by tho Jepanosc.

## B. Intor-Sorvicos Liaison'in Commn Orypto Sorvicas

PVI know - without being in possession of further cotails - of the oxistonce of orypto rephio servicos with the Gomm OiN, OiNI, OLA, OF, tho Foroigh Office, and - ho thoucht - with tho SD :S woll. Tho lattor cortainly tricd to taino over from tho OIII 211 tho orjptogranhers donline vith .fonts traffic (.-EDTENMUNK) as it claimod that this was an SD mattor. This is supposed to hevo houponod soinotine in 44, but Pir did not lnow whother it happoned when tino Reichssiohorhcitshauptext took ovar the ibvehr, or not. In the ond, due to the opposition put up by OZH IIY 7/VI, a compromise was roachod and most yood oryptorraphors from tho .CWMTEN Roforat vero transferred to Oin CHI. . ipart fron trying to triko pooplo or vork from oadh other, the various crypto scrvicos roroly oo-operated wi th ono anothor. PW statos that OKH and Oif did oo-oporate to sono extent, but nothinc wad dono in tho wry of warlcing with OK H , loast of all with 0ivi. Tho lattor kopt cvorythinc to itsolf and PW know of at loast uno instance wherc OiVV had boon in possossion of so:10 information and loft OKII to find out thines for itsclf.

## C. "HONGKONG IITDKE" inothor Varsion of a Trason Story

Cf : OSDIC/CIT/Y 3 I para 5.b)
This was the nano undar which poople roferrod to the person (supposod to have beon of British nationality) who had boen broucht to BERLIV in vinter $41 / 42$ to cive somo informetion of vilue to IN 7/VI, or perhaps the neme of tho porson in URII doulinc with the mattor (thoro was an Oborinsjoktor LIEDTE i/e of the ENGLLND Rofurat at the timo). The porson ooncornod - of vinora it is not known whothor he whs a PW or not - gave some information regarding British methods of discuisine indicator groups (KNNICRUPPEN) in traffic, also a doscription of a nothod of rocognising tho type of codo in which troffic we.s sont aocording to tho nu:ber of syizols in aroonicran sroups.

Pil states the.t ho is ourtain no practioul use could bo mande of tho information civen, but doos not know whothor this was bocause the person concornud pulled the lof of the Gormens or ihother his inforintion did not fit the matorial to which it was appliod. IIO statod that Dr. SC:HUZ and Oborinspoker
 information on the suij joot.
7. PIRSONLITIES (Cf : CSDIC/C.IV/Y 30 para 4)
(a) OITH IN $7 / \mathrm{VI}$

Sonciorîuchrer Oborbaurut Dr SCiIULZ

Dr STTEITBIRG

Hoad (Laitoce) of ENGLuitD and 12 EizIC. Reforat since autuim 44. intizomatioian.

Doscribod by DOST and COEITR as Sundorfuchrar STMIDIIC. Since $4 j$ ho-d of the .- reTC. and SVEDEIT Roforat till autwin $1_{4}$, when the foriwe vore anolcemited with tioo ENGILID Roforat under SCIUTZ above. Export on US - and Swodisin inohino ciphers. In auturin 44 ment to Oinjoc:I.

Dr PIETSCH

Oborroricruncsrat BıIIOVIC

LUZIUS or LUCIUS Dr
Dr (? Lt) F.UCI

CSLi (Wh) STADE

Sonderfuahror (G) FEUC:IT(L) IIGGR

Sonderfuchror :iOTHER
(b) 9 Fivod Intomont Itration

Licut ven dor IFEDEN, Jomes

Lieut ISOTULIO
2/Lt BUEKIR
Insp NHITHCiE

Insp PFITGilR, Emst

2/Lt THIELCE

WT sjt (Funkracictor) FUDOIFFI

Cpl CHRIST Horbort

Cpl MiNSM Ifclut

Forlod vith Dx STHIBBERG on imachino ciphors.

Spocialist Cat on Slav (Si RUROPE) traffic, mainly TITO matorici. Ex-cmploycc of tinc _ustrian Foderal Sti.to till 1933.
C.. and expert on mohino cipher.!

In AGenTm Reforat. Speciolist in eronts codes and ciphors. In 44 went over to OKIMCHI.

Worked in EMGIu ND IRoferat in 42. Lator on movod to TURUEY (?) Sac. Has lived in TUR fir for a long tinc and spoaiks Murlcisha fluently.

In TMGL IND Reforat in 42, latar in RUSNT. No further partioulars lenom.
C.i in FrundirlCH Roforat. Speciolist in Fronch codos and ciphars, incl rachino ciphors. Not relatcd to COLTHR, subjoot of reports $\bar{Y} 30$ and 31 .
$0 C$ Coy, 9 Fixed Intcrocpt Sta till sus 44. Later cithor at 5 Intcrcopt HO , ST GERi; IN or at EUSTIRCIENT FMSTE HORCINTHLTM, nx COLCHNLA AL Gormen of Dutch origin.

Succecdod van der Limilill above.
OC Intercopt PI till autumn 43.
Hond of the Evaluation Soc (CIIT DIR
 traffic, has sorved at the Pisiste HORCISTLKIE at MUNTSTER?

Hoad of Cryptorxuphio Sub-sco (CinT dar HNTZIFFRRUNG). Has served at the THSTE HORCISTMLİ STUTIG.RT. Is a specialist on French oodes and oiphors.

0 Aussenstello LiLDDiN and head of "SNEDEN
 IWITRR Dil MCINEDE:UFILMEUNG). Should be ablo to zivo information on Suedish IT intercopt and oodes.

Expert on MIT MP intorooption. Bolioved to live in FULD.

Bx 9 Fixod Intaroopt Sta. Spocialist on British codos and ciphors.

Ex 9 Fixod Intorocpt Sta. Spooiclist in Svedish codes and ciphers.

Gpl CIRISTHiNN

Opl Lucioner
CYI HOFFENREICH
I/CpI SCiUULEITAN
I/CpI JaNNSEN
I/CDI WIBRUECK
I/CPI SCHOTT
I/Cpl SOHROEDISR
I/Cpl HODIRY
I/Cpl ITBLD
(c) Intercopt HQ

2/Lt IGGIIRS

CSNi (Wra) HIRTH

Cpl AOKHRTLiNN, Wolf

CpI Dintim, Honry
? VNNIGER, Horibort
(d) Iiscollanoous

CpI FLICK
A.G.B.

In 9 Fixod Intorcept Sta. No further details knom.
C...

Qi. Swedish Spocialist.
C...
C.1.
Ci.
a...
C...
a..
C...
 OFFIZIER) in 7 Intaroapt HO, in Jan 45 was sont to I Tixed Intercept Sta (SRILi). In 42 was in TNGIuND Raforat of IN 7/VI.

Frunoh spociolist at 7 Intarcont Iraluation Soc.

In 7 Interoopt Ivaluation Sco. Ix 9 Fixod Intorcopt Sta. Is a :athonaticion.

In winter 44-45 joincd 7 Inturcent Evoluation Scc. Formorly in 9 Fixod Intorocpt Sta. It a spociclist on US.. codos and ciphors. Desortcd to Pirctisans with Piw in iar 45. uftor the collingse got job as intorprotor with a unit in 10 US i.tn Div, later usod as interprotur :ith "ini Coy, i Dn, 351 Inf Recit, 88 US Div. Should bo in the BRISCIL aroa now. Has writton a roport on his activitios for a jor ILNZ, of $\mu E$, IIII.N, in which ho must hevo given hie addruss.

Was with $D_{4} N I E L$ and PW vion they dosorted to Portisuns. No furthor dotails lenown.
C.i and wathonticion in 5 Inturcopt iog in 43. Invontod spaciol apporatus for work on an US.- ciphor mohino.

